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# STATE OF HAWAII

## REQUEST FOR SOLE SOURCE

STATE PROCUREMENT OFFICE  
STATE OF HAWAII

TO: Chief Procurement Officer

FROM: Department of Health / State Laboratories Division / Administration / Bioterrorism Response Laboratory  
(Department / Division / Agency)

Pursuant to § 103D-306, HRS, and Subchapter 9, Chapter 3-122, HAR, the Department requests sole source approval to purchase the following:

## Description of goods, services, or construction:

The VHP 1000ED Biodecontamination System is a compact, mobile decontamination system using vaporized hydrogen peroxide and is designed to decontaminate isolation suites, laboratory benches and spaces, pass-through rooms, and biosafety cabinets. The VHP 1000ED system consists of a 120 V VHP 1000ED Biodecontamination unit and controls, calibration equipment, VHP chemical sensors and indicator, VAPROX chemistries, and AMSCO Spordex VHP discs; and, operator training, and a service agreement that provides service on parts and labor for two year, including engineering updates, enhancements and preventive maintenance schedules.

Name of Vendor: STERIS – Strategic Technology Enterprises, Inc.

Cost: \$85,350.00 - Lump Sum

Address: 5960 Heisley Road  
Mentor, OH 44060-1834  
(440) 354-2600

Term of Contract:

From:

To:

Prior Sole Source Reference No.:

## The goods, services, or construction has the following unique features, characteristics, or capabilities:

The VHP 1000ED biodecontamination system is a mobile, compact system that provides rapid (minimum of two hours), effective decontamination of isolation suites, laboratory benches and spaces, and biosafety enclosures. It uses a safe, low-temperature decontamination process by vaporizing 35% of a very sporicidal concentration of liquid hydrogen peroxide in any enclosed or exposed areas contaminated with spore-forming bacteria, or food-borne pathogens such as E. coli O157:H7, Listeria monocytogenes, or Nosocomial and environmental pathogens such as Vancomycin resistant Enterococcus, Legionella pneumophila, or viruses, yeasts and molds. The VHP technology has been shown to be an effective decontamination system for HVAC systems and has demonstrated its efficacy in decontaminating the most resistant organism on the most resistant material in the presence of blood.

The VHP 1000ED uses proprietary technology such as liquid feed system using a nonreusable container, high capacity multicomponent liquid vaporizer, accumulator-based liquid metering system and method, real-time monitor and control and method for vaporizing hydrogen peroxide vapor, improved continuous-operation-closed-loop decontamination system and high capacity flash vapor generation system (patent is pending).

Sensors and indicators are used with the VHP 1000ED system to detect the concentration and presence of vaporized hydrogen peroxide during decontamination which is very important in monitoring or validation of the VHP process.

Since VHP biodecontamination is a "dry" process and is used at a very low concentration than bleach or other gaseous alternatives, VHP is safe to use and is compatible with a wide range of materials such as electronics including computers, metals (aluminum, titanium) plastics (PVC, nylon polycarbonate, polypropylene), elastomers (polyurethane).

S. S. Number: 04-59-M

### REQUEST FOR SOLE SOURCE (Cont.)

How the unique features, characteristics, or capabilities are essential for the agency to accomplish its work:

- The Bioterrorism Response Laboratory handles potentially infectious bacteria and viral agents that require a strong, effective, and concentrated liquid such as bleach or sodium hypochlorite for decontamination. The VHP 1000ED meets this requirement and more importantly, its portable and mobile features would allow the use of this system to decontaminate all laboratory bench areas and spaces including biosafety cabinets from potential infectious aerosols generated during laboratory manipulations of environmental samples and clinical specimens.
- The VHP process consists of four phases: dehumidification; conditioning; bio-decontamination; and, aeration. These cycles are controlled and monitored real-time by a microprocessor; during the bio-decontamination cycle, concentration of the vaporized hydrogen peroxide is maintained at a constant level by the continuous-operation-closed loop decontamination where the VHP is degraded to water vapor and oxygen.
- VHP technology employs a "dry" process where the concentration is maintained below the critical condensation point of the vapor. For this reason, it is safe to use and is compatible with a variety of surfaces, materials, and electronic equipment.
- VHP is proven effective against a wide range of bacteria, viruses, fungi, spore-formers, molds, and yeasts.
- It is safe to use-of all the gaseous methods such as formaldehyde fumigation and chlorine dioxide for room decontamination.
- The use of simple, hand-held electro chemical and spectro-photometric sensors would allow the user to quantify levels of peroxide which is an important safety issue.
- The VHP system provides thick-walled polyethylene bottles with vented caps to be used for vaporizing 35% of liquid hydrogen peroxide. It is non-toxic and rapidly degrades in the environment into water vapor and oxygen.
- The VHP process is easily validated though the use of chemical indicators that comes with the system.
- This instrument is being purchased with federal Bioterrorism (BT) funds.

The following other possible sources for the goods, services, or construction were investigated but do not meet our needs because:

None.

The VHP system was used to successfully decontaminate the GSA Building 410 in Washington, DC and the NBS studios in New York from anthrax spores and Tripler Army Medical Center will be using their system in their soon-to-be constructed biocontainment laboratory. We would like to employ a system that has a known track record for success and effectiveness, considering the risk and hazardous materials that we will handle in our BT Response Laboratory.

Direct Questions To: Rebecca H. Sciulli Phone: (808) 453-5993 Fax: (808) 453-5995  
Bioterrorism Preparedness Microbiologist & Lab Coordinator

**I certify that the information provided above is to the best of my knowledge, true, correct and that the goods, services, or construction are available through only one source.**

James K. Kadaheri

4-12-04

Department / Agency Head

Date

Deputy Director

Title (If other than Department Agency Head)

Chief Procurement Officer's Comments:

Please ensure adherence to applicable administrative and statutory requirements.

Expenditure may be processed through a purchase order: Yes ☒ No ☐. If no, a contract must be executed and funds certified.

☒ Approved ☐ Denied

Adam P. Fyfe

Chief Procurement Officer

5/10/04

Date

S.S. Number: 045911

STATE PROCUREMENT OFFICE  
STATE OF HAWAII

The VHP 1000ED Biocontamination System is a compact, mobile decontamination system using vaporized hydrogen peroxide and is designed to decontaminate isolation suites, laboratory benches and spaces, pass-through rooms, and biosafety cabinets. The VHP 1000ED system consists of a 120 V VHP 1000ED Biocontamination unit and controls, calibration equipment, VHP chemical sensors and indicator, VAPROX chemistries, and AMSCO Spordex VHP discs; and, operator training, and a service agreement that provides service on parts and labor for two year, including engineering updates, enhancements and preventive maintenance schedules.

<b>Term of Contract:</b>	From:	To:	<b>Cost:</b> \$85,350.00
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Fax Number: (808) 453-5995

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APRIL 14, 2004

Date Notice Posted: \_\_\_\_\_

Submit written objections to this notice to issue a sole source contract within seven (7) calendar days from the date this notice was posted to:

Chief Procurement Officer  
Office/Agency \_\_\_\_\_  
Address \_\_\_\_\_

S.S. No. 04-59-M